









## Inductive Position Transducers

### Position Transducers from 2 ... 1000 mm

Type	DLH / DUH	DU	WLH / WLG	WV
				
<b>Specifications</b>				
Sensor principle	Inductive Full bridge (LVDT)	Inductive Full bridge (LVDT)	Inductive Half bridge	Inductive Half bridge
Stroke [mm]	±25 ... ±250 (50 ... 500)	±7,5 ... ±20 (15 ... 40) and ±300 ... ±500 (600 ... 1000)	±1 ... ±250 (2 ... 500)	±1 ... ±10 (2 ... 20)
Body diameter [mm]	DLH: 12 DUH: 16	14	12	14
Linearity [% FS]	0,5% 0,25% (0,1%)	0,5% 0,25% (0,1%)	0,5% 0,25% 0,1%	0,5% 0,25% 0,1%
For carrier frequency [kHz]	5 optional: 10	5 or 10 dep. on version	2 ... 10	2 ... 10
80 mV/V output version	Option	On request	● (WLG)	-
<b>Connection</b>				
Leads (axial)	●	●	●	●
Wire (radial)	●	●	●	Upon request
Wire (axial)	●	●	●	●
Connector (radial)	●	●	●	Upon request
Connector (axial)	●	Upon request	Upon request	-
<b>Features</b>				
Special features	Outstanding body-to-stroke ratio and linearity	Compact, large strokes	-	Economic sensor
More	-	Stroke models 50 ... 500 mm replaced by DLH / DUH	Short stroke versions, mounting flange versions	-





## Inductive Position Transducers

### Probes from 2 ... 200 mm

Type	DTC	DTL	WT / WTA	WTG / WTH
				
Specifications				
Sensor principle	Inductive full bridge (LVDT)	Inductive full bridge (LVDT)	Inductive half bridge	Inductive half bridge
Stroke [mm]	±10 ... ±50 (20 ... 100)	±25 ... ±100 (50 ... 200)	±1 ... ±50 (2 ... 100)	±1 ... ±50 (2 ... 100)
Body diameter [mm]	25	12	8 / 12	8 / 12
Linearity [% FS]	0,4% 0,2%	0,5% 0,25%	0,5% 0,25% 0,1%	0,5% 0,25% 0,1%
For carrier frequency [kHz]	5 or 10 dep. on version	5 optional: 10	2 ... 10	2 ... 10
80 mV/V output version	●	Option	-	●
Connection				
Leads (axial)	-	●	(●)	-
Wire (radial)	-	●	●	●
Wire (axial)	● (ready for fitting)	●	●	●
Connector (radial)	-	●	●	●
Connector (axial)	●	●	●	●
Features				
Bellows	-	-	● (up to 10 mm)	● (up to 10 mm)
Stroke marks on core rod	Option: mm - scale	-	Option: zero and end positions	Option: zero and end positions
For pressurized applications [bar]	-	-	-	-
Special features	Rugged probe sensor	Ext. spring for optimal body-to-stroke ratio	8 mm shank (WTA)	8 mm shank (WTH)
More	Integral electronics version available	-	-	-





## Inductive Position Transducers

### Pressure-Resistant Position Transducers from 2 ... 1000 mm

Type	DF	DGx	DPx	WP
				
<b>Specifications</b>				
Sensor principle	Inductive full bridge (LVDT)	Inductive full bridge (LVDT)	Inductive full bridge (LVDT)	Complemented inductive quarter bridge
Stroke [mm]	±1 ... ±65 (2 ... 130)	±12,5 ... ±500 (25 ... 1000)	±12,5 ... ±500 (25 ... 1000)	60 ... 1000
Body diameter [mm]	20	DGB: 15 DGO: 20 DGU: 18	DPL: 12 DPN: 14 DPO: 20 DPU: 18	Sleeved core: 16 (up to 300) 18 (400 up)
Linearity [% FS]	0,5% 0,25%	0,5% 0,25%	0,5% (0,25%)	0,5%
For carrier frequency [kHz]	5 or 10 dep. on version	5 or 10 dep. on version	5 or 10 dep. on version	5
80 mV/V output version				-
<b>Connection</b>				
Leads (axial)	● (up to 20 mm)	-	-	-
Wire (radial)	Upon request	-	●	●
Wire (axial)	● (from 25 mm)	●	Upon request	Upon request
Connector (radial)	Upon request	-	●	●
Connector (axial)	Upon request	●	●	●
<b>Features</b>				
For pressurized applications [bar]	300 (up to 20 mm) 350 (25 mm up)	DGB: 300 DGO: 450 DGU: 250	DPL: 200 DPN: 160 DPO: 320 DPU: 200	320
Special features	Main body extending outside pressurized area, ideal for valve applications	Threaded body	-	Favorable body-to-stroke ratio
More	Available with hole-mounting or threaded flange (up to DF 18)	Version with integrated electronics feasible	Available - int. Electronics - IP 68/69 version	Available - probe version - int. Electronics - IP 68/69 version

## Inductive Position Transducers

### DC/DC Transducers with Integral Electronics 25 ... 1000 mm

Type	DAA / DAE	EDD	DxA / DxE / Dxl	WA / WE / WI
				
<b>Specifications</b>				
Stroke [mm]	25 ... 1000	±7,5 ... ±500 (15 ... 1000)	±12,5 ... ±500 (25 ... 1000)	60 ... 1000
Body diameter [mm]	25	14	DLx: 12 DNx: 14 DOx: 20 DUx: 18	Sleeved core: 16 (bis 300) 18 (ab 400)
Linearity [% FS]	0,5% 0,25%	0,5%	0,5% (0,25%)	0,5%
<b>Electronics (integrated)</b>				
<i>Supply</i>	<i>Output</i>			
±15 VDC	±10 V / 0 ... 10 V	● (DAE, Option)	-	● (DxE, Option)
±15 VDC	4 ... 20 mA	● (DAA, Option)	-	● (DxA)
+24 VDC	±10 V / 0 ... 10 V	● (DAE)	● (2 ... 10 V)	● (DxE)
+24 VDC	4 ... 20 mA	● (DAA)	●	● (Dxl, 2-wire)
+10...30 VDC	PWM 10 ... 90 %	-	●	-
<b>Connection</b>				
Leads (axial)	-	●	-	-
Wire (radial)	-	●	●	●
Wire (axial)	(upon request)	●	-	-
Connector (radial)	●	●	●	●
Connector (axial)	-	●	-	-
<b>Features</b>				
For pressurized applications [bar]	-	-	DLx: 200 DNx: 160 DOx: 320 DUx: 200	320
Special features	version DAx...G with roller bearing; ball eyes on both ends	-	-	Easy-to-mount sleeved core; Favorable body-to-stroke ratio
More	-	-	IP 68/69 version upon request	IP 68/69 version upon request